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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/080,475	10/080,475 02/22/2002		Bhupendra K. Soni	GTI-1468	8518	
33058	7590	10/27/2005		EXAMINER		
MARK E. I			SINES, BRIAN J			
		'INSTITUTE T PROSPECT ROAI)	ART UNIT	ART UNIT PAPER NUMBER	
DES PLAINES, IL 60018				1743		

DATE MAILED: 10/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/080,475	SONI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Brian J. Sines	1743	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	vith the correspondence ad	dress
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions. - Failure to reply within the set or extended period for reply will, by state that the period is after the main three months after the main term of patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MO tute, cause the application to become A	ICATION. The reply be timely filed ONTHS from the mailing date of this CABANDONED (35 U.S.C. § 133).	
Status _.			
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) □ The solution is FINAL. 2b □ The solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for allow closed in accordance with the practice under the solution for all the solutions for all t	nis action is non-final. vance except for formal ma	• •	e merits is
Disposition of Claims			
4) ☐ Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withden 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and application Papers	rawn from consideration.		
9) The specification is objected to by the Exami 10) The drawing(s) filed on is/are: a) and an applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the analysis.	ccepted or b) objected to ne drawing(s) be held in abeya ection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CF	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life.	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No n received in this National	Stage
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413) o(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date		Informal Patent Application (PTC	D-152)

Page 2

Application/Control Number: 10/080,475

Art Unit: 1743

DETAILED ACTION

Allowable Subject Matter

The indicated allowability of claims 2, 3 & 5-13 is withdrawn in view of the newly discovered reference(s) to Petty et al. (U.S. Pat. No. 6,478,961 B2), Devon (U.S. Pat. No. 5,138,101 A) and Ray et al. (U.S. Pat. No. 5,470,535 A). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 1. Claims 1 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Petty et al. (U.S. Pat. No. 6,478,961 B2) (hereinafter "Petty") in view of Devon (U.S. Pat. No. 5,138,101 A) (hereinafter "Devon"). Petty teaches a device for the sequestration or extraction and concentration of polar organic chemicals from water. Petty teaches the use of a separation means comprising a sealed microporous polymeric membrane enclosure containing a sorbent

Application/Control Number: 10/080,475 Page 3

Art Unit: 1743

comprising a mixed sequestration phase comprising polystyrene-divinylbenzene sorptive resin (see col. 3, line 41 - col. 4, line 59). Petty does not specifically teach the use of a transparent reactor vessel or the additional apparatus components as claimed. However, the use of a transparent reactor vessel or glass flask including a sealing means comprising a septum and a magnetic stirring means are well known in the art of analytical chemistry in performing chemical extraction procedures (see MPEP § 2144.03). For example, Devon teaches the use of a glass flask equipped with a magnetic stir bar and a sealing means comprising a septum for use with a syringe for performing extraction procedures (see col. 2, lines 35-68). Hence, as evidenced by Devon, a person of ordinary skill in the art would accordingly have had a reasonable expectation for success in utilizing the apparatus for performing extraction procedures. The Courts have held that the prior art can be modified or combined to reject claims as prima facie obvious as long as there is a reasonable expectation of success. See In re Merck & Co., Inc., 800 F.2d 1091, 231 USPO 375 (Fed. Cir. 1986) (see MPEP § 2143.02). Therefore, it would have been obvious to a person of ordinary skill in the art to incorporate the use of the apparatus disclosed by Devon with the extraction system of Petty. Thus, Petty in view of Devon teaches all of the positively recited structure of the claimed apparatus.

2. Claims 7 – 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayes et al. (U.S. Pat. No. 6,591,702 B2) (hereinafter "Hayes") in view of Petty et al. (U.S. Pat. No. 6,478,961 B2) (hereinafter "Petty") in view of Ray et al. (U.S. Pat. No. 5,470,535 A) (hereinafter "Ray"). Hayes teaches a method for analyzing contaminated soil samples using an adsorptive resin test comprising a two-compartment release mode comprising a fast release mode

Art Unit: 1743

and a slow release mode using a zero headspace extraction vessel (see, e.g., col. 5, lines 12 - 32; col. 7, line 25 – col. 8, line 25). Hayes does not specifically teach the use of a separation means or containment means for holding the sorptive resin during use. Petty teaches a device and method for the sequestration or extraction and concentration of polar organic chemicals from samples. Petty teaches the use of a separation means comprising a sealed microporous polymeric membrane enclosure containing a sorbent comprising a mixed sequestration phase comprising polystyrene-divinylbenzene sorptive resin (see col. 3, line 41 - col. 4, line 59). The Courts have held that the selection of a known material, which is based upon its suitability for the intended use, is within the ambit of one of ordinary skill in the art. See *In re Leshin*, 125 USPQ 416 (CCPA 1960) (see MPEP § 2144.07). Thus, a person of ordinary skill in the art would have recognized the suitability in using a sorptive resin as disclosed by Peett for performing extraction procedures. Ray teaches a universal zero-headspace extractor vessel for analyzing volatile rganic liquid samples. Ray teaches a transparent reactor vessel (10) comprising a sealable means (e.g., discharge port 26) for introducing liquid samples into the vessel (see col. 1, line 25 - col. 13, line 20; figures 1 - 3). Hayes teaches various pertinent water-to-soil sample dilutions applied in the testing (see col. 8, lines 5-25). Ray teaches the use of a mechanical agitation means for mixing samples (see col. 9, lines 46 - 62). Dialysis bags are well known in the art to comprise microporous membranes that have known molecular weight cutoff values(see MPEP § 2144.03). Therefore, it would have been obvious to a person of ordinary skill in the art to utilize a dialysis bag as a separation means for containing the sorptive resin during use. As discussed above, Hayes in view of Petty and Ray teaches all of the positively recited structure of the apparatus provided in the claimed method, which merely

Application/Control Number: 10/080,475 Page 5

Art Unit: 1743

person of ordinary skill in the art to perform the method recited in the instant claims upon the apparatus of Hayes, Petty and Ray, as such is the intended operation of that apparatus.

Response to Arguments

Applicant's arguments with respect to the pending claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines, Ph.D. whose telephone number is (571) 272-1263. The examiner can normally be reached on Monday - Friday (11 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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